## WHAT IS CLAIMED IS:

- 1. Biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.
- A crystalline biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of Claim 1 further characterized by the X-ray powder diffraction pattern comprising a peak at 5.2, 6.2, 12.6, 14.0, 15.6, 17.0, 18.8, 19.6, 20.0, or 22.6 (± 0.1° 2θ).
- 3. A crystalline biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of Claim 1 further characterized by the X-ray powder diffraction pattern comprising
  peaks at 5.2 and 6.2 (± 0.1° 2θ).
  - 4. A crystalline biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of Claim 1 further characterized by the X-ray powder diffraction pattern comprising peaks at 15.6 and 18.8 (± 0.1° 2θ).
  - 5. A crystalline biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of Claim 1 further characterized by the X-ray powder diffraction pattern comprising peaks at 5.2, 6.2, 12.6, 15.6, 18.8, and 20.0 (± 0.1° 2θ).
  - 6. A crystalline biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of Claim 1 further characterized by the X-ray powder diffraction pattern comprising peaks at 5.2, 6.2, 12.6, 14.0, 15.6, 17.0, 18.8, 19.6, 20.0, and 22.6 (± 0.1° 2θ).
    - 7. A pharmaceutical composition comprising biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate and a pharmaceutically acceptable diluent.

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8. A pharmaceutical composition comprising the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6 and a pharmaceutically acceptable diluent.

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10. A method of treating disorders associated with the muscarinic receptors comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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11. A method of treating disorders associated with the muscarinic receptors comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.

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12. A method of treating cognitive disorders comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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13. A method of treating cognitive disorders comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.

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14. A method of treating Alzheimer's disease comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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15. A method of treating Alzheimer's disease comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.

16. A method of treating schizophrenia comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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17. A method of treating schizophrenia comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.

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18. A method of treating mild cognitive impairment comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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19. A method of treating mild cognitive impairment comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.

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20. A method of treating cognitive impairment associated with schizophrenia comprising administering to a patient in need thereof an effective amount of biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate.

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21. A method of treating cognitive impairment associated with schizophrenia comprising administering to a patient in need thereof an effective amount of the biphenyl-4-carboxylic acid (R)-(6-(1-((4-fluorobenzyl)methylamino]ethylideneamino)-2(R)-hydroxyindan-1-yl)amide hemihydrate of any one of Claims 2-6.